



### SUMMARY TEST DATA ON AMPLIFIER

**Customer :**  
**Job No :**  
**Model No :** PEC-25/15-618-15-SFF  
**Serial No :** PL878

**Tested By :** Kevin Mason  
**Temperature :** +25°C  
**Date :** 04/28/03

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	Frequency Range:	6 – 18 GHz	Pass	
2	Gain:	J1-J2: 23 to 27dB J1-J3: 13 to 17dB	Pass (See Plots)	
3	Gain Variation: J1-J2, J1-J3	±2.5 dB Max.	J1-J2: ±1.25 dB J1-J3: ±1.43 dB	
4	Noise Figure:	10.0 dB Max.	Pass (See Plots)	
5	Output Power J1-J2: J1-J3:	+13 dBm Min. with -9 to +5dBm RF CW in J1 +13 dBm Min. with +1 to +5dBm RF CW in J1	14.2 to 19.1 dBm 15.0 to 17.2 dBm	
6	VSWR In/Out:	2.0:1 Max.	Pass (See Plots)	
7	Harmonics:	15dBc Min.	≥ 15dBc	
8	OIP3	+24dBm Min. @ J2 +21dBm Min. @ J3	> +24dBm >+21dBm	
9	Temperature Range	-54 to +85 °C	Pass	
10	Isolation	0.1dB Max. J2 to J3	< 0.1dB	
11	DC Power	620mA@+15 VDC +/-2V	378mA	

**Production Manager Approval:**  **Date:** 04/28/03

**QA/QC Approval:**  **Date:** 04/28/03

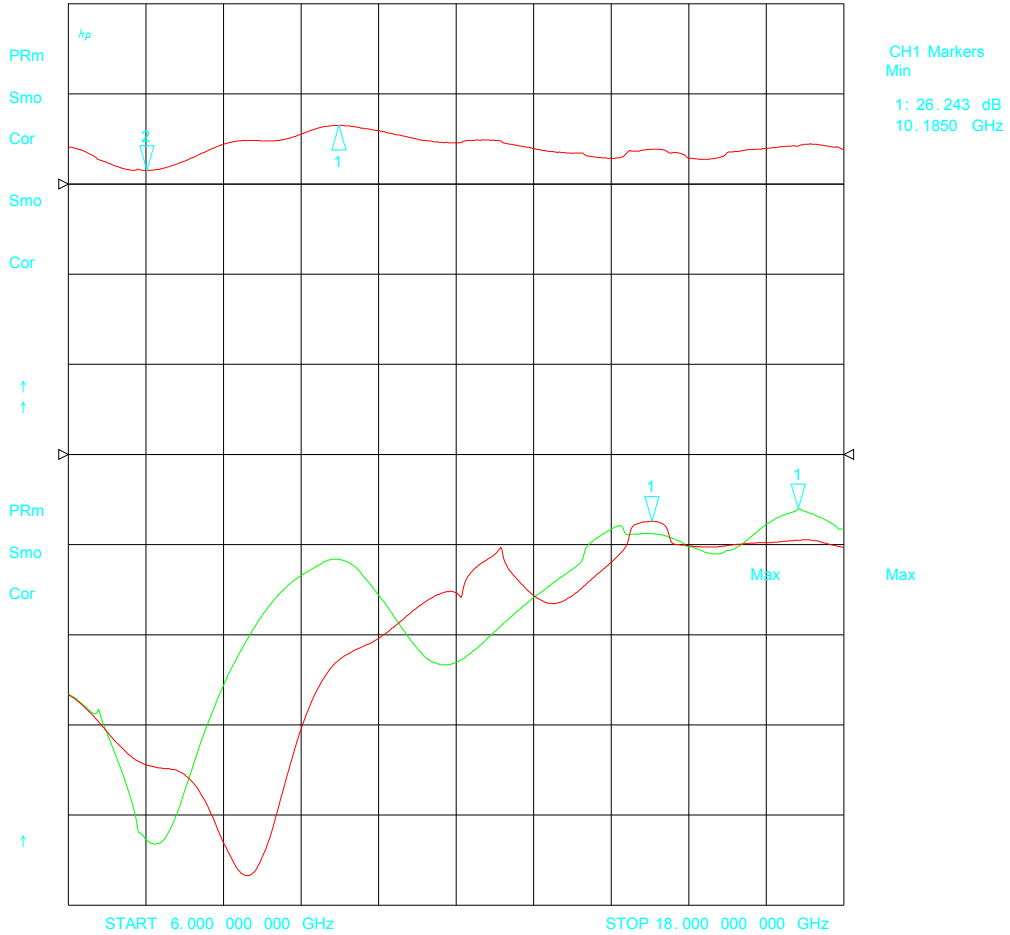
7311-G Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731  
 email: [sales@planarelec.com](mailto:sales@planarelec.com)



### VNA Plot – J1 to J2

28 Apr 2003 15:54:24

CH1	S21	LOG	5 dB/	REF 23 dB	2: 23.745 dB	7.215 000 000 GHz
CH2	S11	LOG	5 dB/	REF -9.54 dB	1: -12.552 dB	17.295 000 000 GHz
CH3	S22	LOG	5 dB/	REF -9.54 dB	1: -13.250 dB	15.030 000 000 GHz



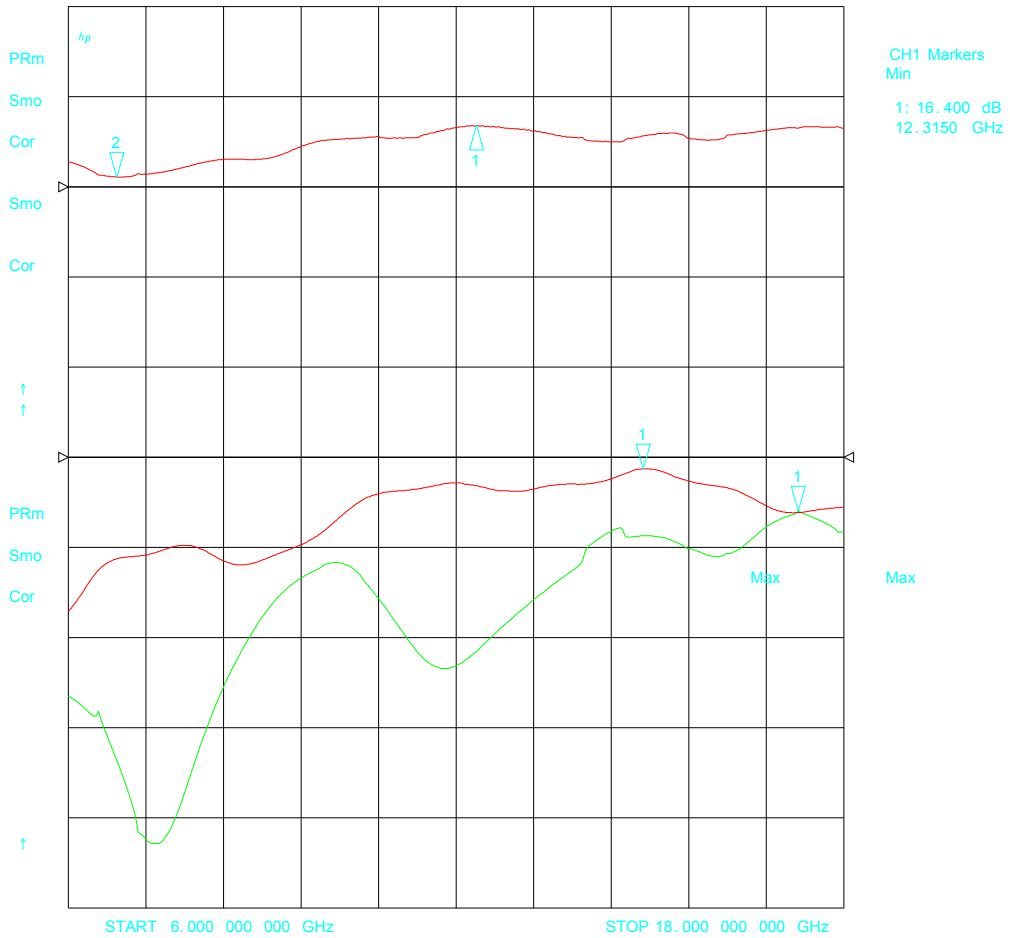
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### VNA Plot – J1 to J3

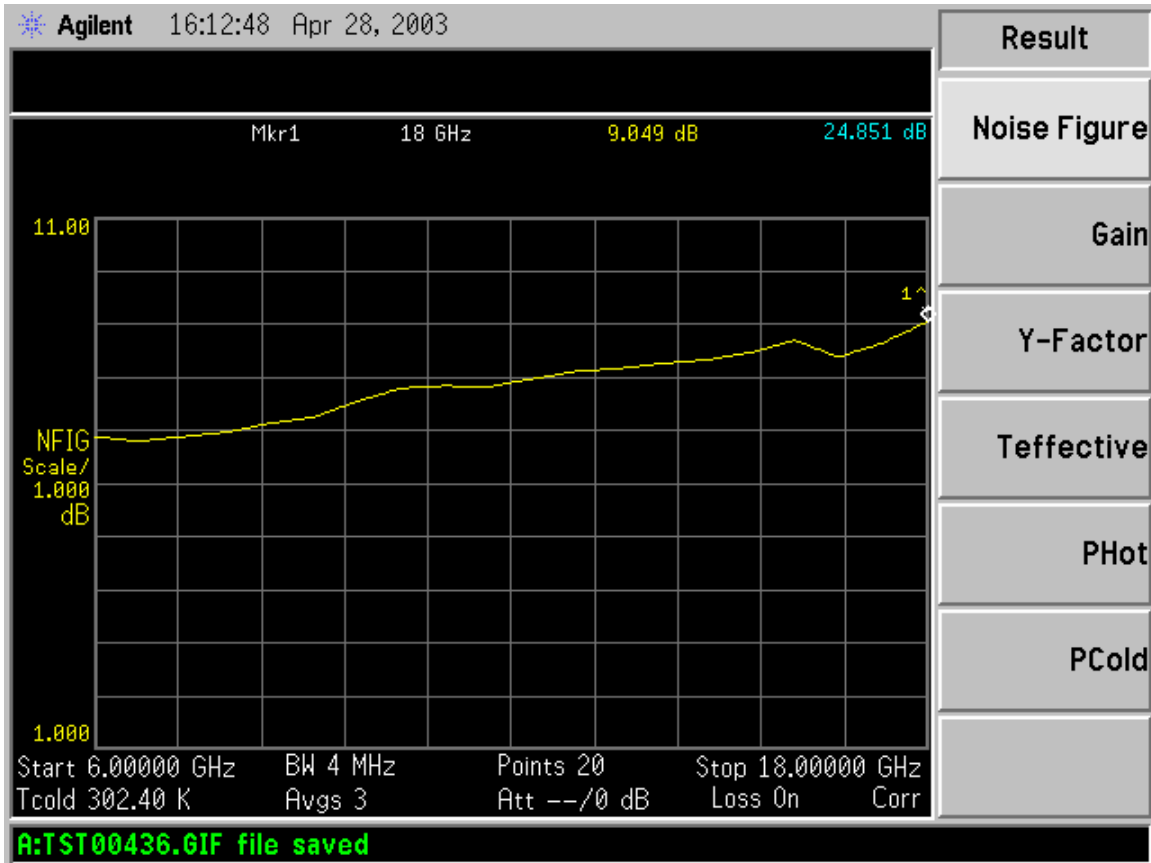
28 Apr 2003 15:54:51

CH1	S21	LOG	5 dB/	REF 13 dB	2: 13.538 dB	6.750 000 000 GHz
CH2	S11	LOG	5 dB/	REF -9.54 dB	1: -12.533 dB	17.295 000 000 GHz
CH3	S22	LOG	5 dB/	REF -9.54 dB	1: -10.190 dB	14.895 000 000 GHz



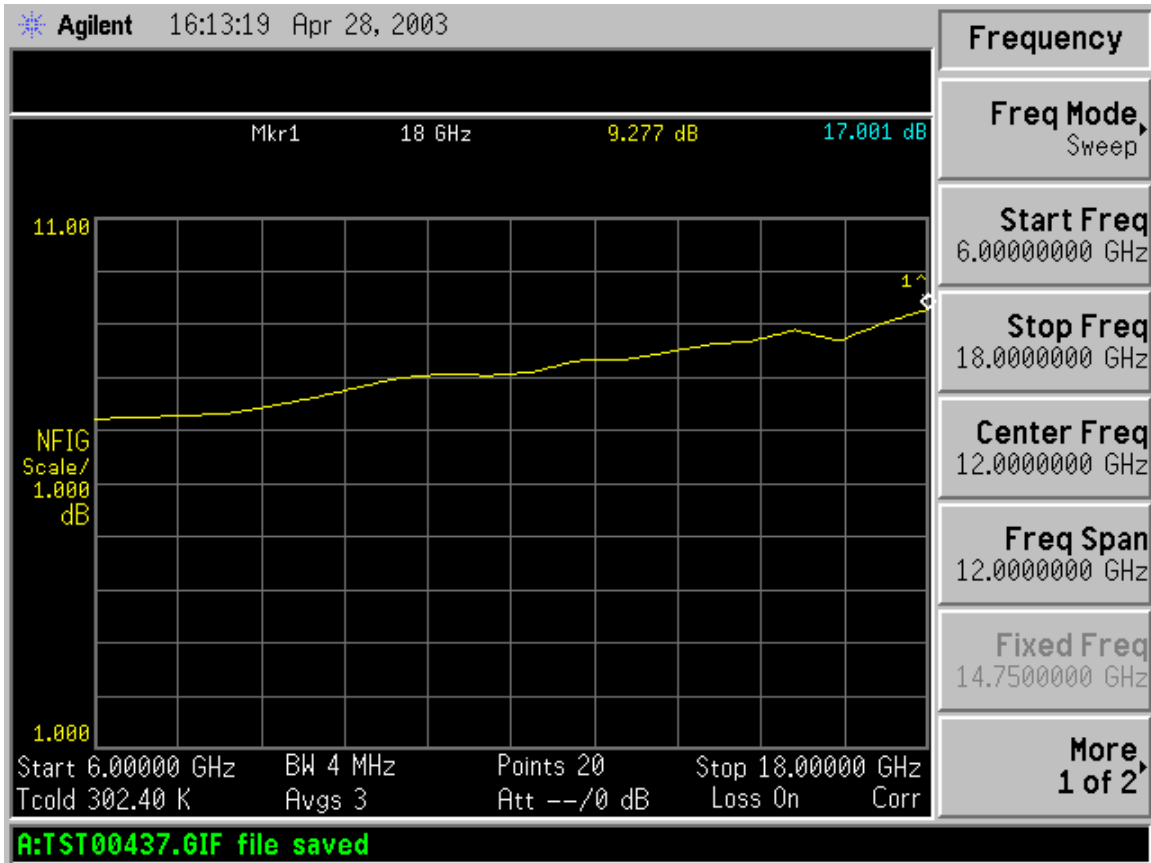
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### Noise Figure Plot - J1 to J2





### Noise Figure Plot - J1 to J3



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